AIRLINE TRANSPORT PILOT, AIRCRAFT DISPATCHER, AND FLIGHT NAVIGATOR KNOWLEDGE TEST GUIDE





U.S. Department of Transportation Federal Aviation Administration

AIRLINE TRANSPORT PILOT, AIRCRAFT DISPATCHER, AND FLIGHT NAVIGATOR KNOWLEDGE TEST GUIDE

1995

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

Flight Standards Service

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PREFACE

The Flight Standards Service of the Federal Aviation Administration (FAA) has developed this guide to help applicants meet the knowledge requirements for airline transport pilot, aircraft dispatcher, and flight navigator certification.

This guide contains information about eligibility requirements, test descriptions, testing and retesting procedures, and sample test questions representative of those used in the official tests. Sample test questions and choices of answers are based on regulations, principles, and practices valid at the time this guide was printed. In addition, appendix 1 provides a list of reference materials and subject matter knowledge codes, supplemental study reference materials, and computer testing designees. The list of subject matter knowledge codes should be referred to when reviewing areas of deficiency on the airman test report. Changes to the subject matter knowledge code list will be published as a separate advisory circular.

The airline transport pilot, aircraft dispatcher, and flight navigator test question bank and subject matter knowledge code list for all airmen certificates and ratings, with changes, may be obtained by computer modern from FedWorld at (703) 321-8020. This bulletin board service is provided by the U.S. Department of Commerce, 24 hours a day, 7 days per week. For technical assistance regarding computer software and modern requirements for this service, contact the FedWorld help desk at (703) 487-4608 from 7:30 a.m. to 5:00 p.m. e.s.t., Monday through Friday.

This publication may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402-9325 or from U.S. Government Printing Office bookstores located in major cities throughout the United States.

Comments regarding this guide should be sent to:

Federal Aviation Administration Operations Support Branch, AFS-630 ATTN: ATP Certification Area Manager P. O. Box 25082 Oklahoma City, OK 73125

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AIRLINE TRANSPORT PILOT, AIRCRAFT DISPATCHER, AND

FLIGHT NAVIGATOR KNOWLEDGE TEST GUIDE

INTRODUCTION

The FAA has available hundreds of computer testing centers nationwide. These testing centers offer the full range of airman knowledge tests including military competence, instrument foreign pilot, and pilot examiner predesignated tests. Refer to appendix 1 in this guide for a list of computer testing designees.

This knowledge test guide was developed to be used by applicants preparing to take a knowledge test for the following ratings:

Airline Transport Pilot—Airplane (FAR 121)
Airline Transport Pilot—Airplane (FAR 135)
Airline Transport Pilot—Airplane—Added Rating
(FAR 135)
Airline Transport Pilot—Helicopter (FAR 135)
Airline Transport Pilot—Helicopter—Added Rating
(FAR 135)
Aircraft Dispatcher (FAR 65)
Flight Navigator (FAR 63)

What is required to become a skilled and effective airline transport pilot, aircraft dispatcher, or flight navigator? Although some individuals possess more knowledge and skills than others, no one is born a natural pilot, dispatcher, or navigator. Competent airmen become so through study, hard work, and experience.

This guide is not offered as a quick and easy way to obtain the necessary information for passing the knowledge tests. There is no quick and easy way to obtain the background of experience, knowledge, and skill needed to dispatch or operate aircraft safely in our complex national airspace system. Rather, the intent of this guide is to define and narrow the field of study, as much as possible, to the required knowledge areas for obtaining an airline transport pilot, aircraft dispatcher, or flight navigator certificate.

ELIGIBILITY REQUIREMENTS

The general qualifications for an airline transport pilot, aircraft dispatcher, or flight navigator certificate require that the applicant have a combination of experience, knowledge, and skill.

An applicant for an airline transport pilot certificate or added rating should carefully review the appropriate sections of Federal Aviation Regulations (FAR) Part 61 for detailed information pertaining to this subject.

An applicant for a flight navigator certificate should carefully review the appropriate sections of FAR Part 63 for detailed information pertaining to this subject.

An applicant for an aircraft dispatcher certificate should carefully review the appropriate sections of FAR Part 65 for detailed information pertaining to this subject.

KNOWLEDGE AREAS ON THE TESTS

The tests are designed to test an applicant's knowledge in many subject areas. An applicant for an airline transport pilot certificate or added rating should review the appropriate sections of FAR Part 61 for the specific knowledge areas on each test. An applicant taking the airline transport pilot (FAR 121) airplane test will be tested on FAR Part 121 as one of the knowledge areas. An applicant taking the airline transport pilot (FAR 135) airplane test will be tested on FAR Part 135 as one of the knowledge areas. All other knowledge areas are not specified as being for FAR Part 121 or FAR Part 135, and the questions may be used on any of the tests.

An applicant for a flight navigator certificate should review the appropriate sections of FAR Part 63 for the specific knowledge areas on the test. An applicant for an aircraft dispatcher certificate should review the appropriate sections of FAR Part 65 for the specific knowledge areas on the test. The applicant will be tested on FAR Part 121 as one of the knowledge areas. If Part 135 commuter operators (as defined in DOT Part 298) are required to have aircraft dispatchers in the future, FAR Part 135 questions will be added to the test. The aircraft dispatcher applicant is not required to have the flying skills of an airline transport pilot but is expected to have the same knowledge.

DESCRIPTIONS OF THE TESTS

All test questions are the objective, multiple-choice type, with three choices of answers. Each question can be answered by the selection of a single response. The minimum passing score for each test is 70 percent.

The maximum time allowed for taking each test is either 2.5 or 3 hours, and is based on previous experience and educational statistics. This amount of time is considered more than adequate for applicants with proper preparation and instruction.

The following tests each contain 80 questions and 3 hours is allowed to take each test:

Airline Transport Pilot —Airplane (FAR 121) Airline Transport Pilot—Airplane (FAR 135) Airline Transport Pilot—Helicopter (FAR 135) Flight Navigator Aircraft Dispatcher

The following tests each contain 50 questions and 2.5 hours is allowed to take each test:

Airline Transport Pilot—Airplane-Added Rating (FAR 135)
Airline Transport Pilot—Helicopter-Added Rating (FAR 135)

Communication between individuals through the use of words is a complicated process. In addition to being an exercise in the application and use of aeronautical knowledge, a test is also an exercise in communication since it involves the use of the written language.

Since the tests involve written rather than spoken words, communication between the test writer and the person being tested may become a difficult matter if care is not exercised by both parties. Consequently, considerable effort is expended to write each question in a clear, precise manner. Applicants should carefully read the information and instructions given with the tests, as well as the statements in each test item.

When taking a test, keep the following points in mind:

- 1. Answer each question in accordance with the latest regulations and procedures.
- 2. Read each question carefully before looking at the possible answers. You should clearly understand the problem before attempting to solve it.
- 3. After formulating an answer, determine which of the responses most nearly corresponds with your answer. The answer chosen should completely resolve the problem.
- 4. From the answers given, it may appear that there is more than one possible answer. However, there is only one answer that is correct and complete. The other answers are either incomplete or are derived from popular misconceptions.
- 5. If a certain question is difficult for you, it is best to mark it for RECALL and proceed to the next question. After you answer the less difficult questions, return to those which you marked for recall and answer them. The recall marking procedure will be explained to you prior to starting the test. Although the computer should alert you to unanswered questions, make sure every question has an answer recorded. This procedure will enable you to use the available time to the maximum advantage.
- 6. When solving a calculation problem, select the answer nearest your solution. The problem has been checked with various types of calculators; therefore, if you have solved it correctly, your answer will be closer to the correct answer than any of the other choices.

TAKING A KNOWLEDGE TEST BY COMPUTER

You should determine what authorization requirements are necessary before contacting or going to the computer testing center. Testing center personnel cannot begin the test until you provide them with the proper authorization, if one is required. A limited number of tests require no authorization. However, you should always check with your instructor or your local Flight Standards District Office if you are not sure what kind of authorization to bring to the testing facility.

The next step is the actual registration process. Most computer testing centers require that all applicants contact a central 1-800 phone number. At this time, you should select a testing site, schedule a test date, and make financial arrangements for test payment. You may register for tests several weeks in advance of the proposed testing date. You may cancel your appointment up to 2 business days before test time, without financial penalty. After that time, you may be subject to a cancellation fee as determined by the testing center.

You are now ready to take the test. Remember, you always have an opportunity to take a sample test before your actual test begins. Your actual test is under a time limit, but if you know the material, there should be sufficient time to complete and review your test. Within moments of completing the test, you will receive an airman test report, which contains your score. It also lists those subject matter knowledge areas where questions were answered incorrectly. The total number of subject matter knowledge codes shown on the test report is not necessarily an indication of the total number of questions answered incorrectly. These codes refer to a list of knowledge areas that can be found in appendix 1 of this guide. You can study these knowledge areas to improve your understanding of the subject matter.

The airman test report, which must show the computer testing company's embossed seal, is an important document. **DO NOT LOSE THE AIRMAN TEST REPORT** as you will need to present it to the examiner prior to taking the practical test. Loss of this report means that you will have to request a duplicate copy from the FAA in Oklahoma City. This will be costly and time consuming.

The validity period of an airline transport pilot test may be extended past the 24 calendar months by an FAA Aviation Safety Inspector (Operations) or an Airline Transport Pilot Examiner, if the following conditions are met:

- 1. Flight crewmembers employed by a Part 121 operator or a Part 135 commuter operator (as defined in DOT Part 298), in either an airplane or a helicopter operation, must meet the following requirements to extend the validity date past 24 months:
- a. The applicant must have been employed as a flight crewmember by a Part 121 operator or a Part 135 commuter operator at the time the knowledge test was passed, or must have become employed by a Part 121 or Part 135 commuter operator within 24 calendar months after passing the knowledge test.
- b. At the time of the practical test, the applicant must be employed as a flight crewmember by a Part 121 operator or a Part 135 commuter operator. The applicant is **NOT REQUIRED** to have been continuously employed in a qualifying position between the time the knowledge test was passed and the time application is made to take the practical test.
- c. The applicant must be currently participating in a training program which includes a recurrent training curriculum in accordance with Part 121 or Part 135.
- d. The applicant must have completed initial new-hire or initial equipment training, and if appropriate, transition or upgrade training.
- 2. Military personnel who participate as pilots in the flight training program of a scheduled military transportation service must meet the following requirements:
- a. The applicant must have been participating in the flight training program at the time the knowledge test was passed, or have begun participating in the flight training program within 24 calendar months after passing the knowledge test.
- b. The applicant must be currently participating in the military training program.

Inspectors and examiners will not accept an expired airman test report for the practical test unless the applicant provides written evidence of continued eligibility. When satisfactory evidence is presented, the inspector or examiner will enter, date, and sign the following statement on the airman test report:

"The period of validity of this form has been extended in accordance with the provisions of FAR Section 61.39(b)."

CHEATING OR OTHER UNAUTHORIZED CONDUCT

Computer testing centers follow rigid testing procedures established by the FAA. This includes test security. When entering the testing area, you are permitted to take only scratch paper furnished by the test administrator, and an authorized aviation computer, plotter, etc., approved for use as listed in FAA Order 8080.6, Conduct of Airmen Knowledge Testing via the Computer Medium, and AC 60-11, Aids Authorized for Use by Airman Written Test Applicants. The FAA has directed testing centers to stop a test any time a test administrator suspects a cheating incident has occurred. An FAA' investigation will then follow. If the investigation determines that cheating or other unauthorized conduct has occurred, any airman certificate that you hold may be revoked, and you may not be allowed to take a test for 1 year.

RETESTING PROCEDURES

If the score on the airman test report is 70 or above, the report is valid for 24 calendar months. If your score is 70 or above, you may elect to retake the test, in anticipation of a better score, after 30 days from the date the last test was taken. Prior to retesting, you must give your current airman test report to the computer testing administrator. Remember, the score of the **latest** test you take will become the official test score. The FAA will not consider allowing anyone to retake a valid test before the 30-day remedial study period.

A person who fails an airline transport pilot test must present the airman test report and a valid medical certificate prior to retesting. An applicant should review the appropriate section of FAR Part 61 for remediation and current information.

A person who fails a flight navigator test must present the airman test report and a valid second-class medical certificate before retesting. The applicant should also review the appropriate section of FAR Part 63.

A person who fails an aircraft dispatcher test must present the airman test report before retesting. The applicant should review the appropriate section of FAR Part 65.

SAMPLE TEST QUESTIONS AND ANSWERS

AIRLINE TRANSPORT PILOT-AIRPLANE (FAR 121) (ATP)

1. If a turbine-engine-powered, pressurized airplane is not equipped with quick-donning oxygen masks, what is the maximum flight altitude authorized without one pilot wearing and using an oxygen mask?

A-FL 300.

B-FL 250.

C-FL 200.

Answer B—Subject Matter Knowledge Code: D11. FAR Section 121.333(c)(2) states in part: "When operating at flight altitudes above flight level 250, one pilot at the controls of the airplane shall at all times wear and use an oxygen mask secured, sealed, and supplying oxygen, except that the one pilot need not wear and use an oxygen mask while at or below flight level 410 if each flight crewmember on flight deck duty has a quick-donning type of oxygen mask...."

2. The "age 60 rule" of FAR Part 121 applies to

A—any required pilot crewmember.

B—any pilot or flight engineer.

C—the pilot in command only.

Answer A—Subject Matter Knowledge Code: D13. FAR Section 121.383(c) states: "No certificate holder may use the services of any person as a pilot on an airplane engaged in operations under this part if that person has reached his 60th birthday. No person may serve as a pilot on an airplane engaged in operations under this part if that person has reached his 60th birthday."

AIRLINE TRANSPORT PILOT-AIRPLANE (FAR 135) (ATA) AND AIRLINE TRANSPORT PILOT ADDED RATING-AIRPLANE (FAR 135) (ARA)

1. At altitudes above 10,000 feet through 12,000 feet MSL, each pilot of an unpressurized airplane must use supplemental oxygen for that part of the flight that is of a duration of more than

A—20 minutes.

B-45 minutes.

C—30 minutes.

Answer C—Subject Matter Knowledge Code: E02. FAR Section 135.89(a)(1) states in part: "At altitudes above 10,000 feet through 12,000 feet MSL for that part of the flight at those altitudes that is of more than 30 minutes duration...."

2. Which is an operational requirement concerning ice, snow, or frost on structural surfaces?

- A—A takeoff may not be made if ice or snow is adhering to the wings, stabilizing or control surfaces.
- B—A takeoff may be made with ice, snow, or frost adhering to the wings, stabilizing or control surfaces if wing anti-icing and icing equipment is operating.
- C—If snow, ice, or frost is adhering to the airplane's lift or control surfaces, but polished smooth, a takeoff may be made.

Answer A—Subject Matter Knowledge Code: E04. FAR Section 135.227(a)(1)(2) states: "No pilot may take off an aircraft that has frost, ice, or snow adhering to any rotor blade, propeller, windshield, wing, stabilizing or control surface, to a powerplant installation, or to an airspeed, altimeter, rate of climb, or flight attitude instrument system, except under the following conditions:

- (1) Takeoffs may be made with frost adhering to the wings, or stabilizing or control surfaces, if the frost has been polished to make it smooth.
- (2) Takeoffs may be made with frost under the wing in the area of the fuel tanks if authorized by the Administrator."

AIRLINE TRANSPORT PILOT-HELICOPTER (FAR 135) (ATH) AND AIRLINE TRANSPORT PILOT ADDED RATING-HELICOPTER (FAR 135) (ARH)

1. What is the result of loading a helicopter so that the CG is aft of the rearward limit?

- A—Insufficient aft cyclic control to decelerate properly during an approach.
- B—Inability of the pilot to recognize this dangerous condition when hovering in a strong headwind.
- C—Insufficient forward cyclic control to fly in the upper allowable airspeed range.

Answer C—Subject Matter Knowledge Code: H76. AC 61-13, Basic Helicopter Handbook, states: "The pilot may find it impossible to fly in the upper allowable airspeed range due to insufficient forward cyclic displacement to maintain a nose-low attitude."

2. What is the minimum rest period that must be provided for a pilot assigned to Helicopter Hospital Emergency Medical Evacuation Service (HEMES) who has been on duty for a 50-hour period?

A-16 consecutive hours.

B—12 consecutive hours.

C—10 consecutive hours.

Answer A—Subject Matter Knowledge Code: E06. FAR Section 135.271(h)(2) states: "At least 16 consecutive hours for an assignment of more than 48 hours."

AIRCRAFT DISPATCHER (FAR 65) (ADX)

1. To remain current as an aircraft dispatcher, a dispatcher must, in addition to other requirements,

- A—make a trip over one of the air carrier's routes within the preceding 6 calendar months.
- B—spend 5 hours observing flight deck operations within the preceding 12 calendar months.
- C—make a trip in one of the types of airplanes to be dispatched, every 3 months.

Answer B—Subject Matter Knowledge Code: D16. FAR Section 121.463(c) states: "No domestic or flag air carrier may use any person, nor may any person serve, as an aircraft dispatcher unless within the preceding 12 calendar months he has satisfactorily completed operating familiarization consisting of at least 5 hours observing from the flight deck operations under this part in one of the types of airplanes in each group he is to dispatch."

2. When an aircraft dispatcher declares an emergency for a flight and a deviation results, a written report shall be sent to the

A—ATC facility chief within 48 hours.

B—nearest FAA district office within 48 hours.

C—FAA Administrator within 10 days.

Answer C—Subject Matter Knowledge Code: D20. FAR Section 121.557(c) states: "Whenever a pilot in command or dispatcher exercises emergency authority, he shall keep the appropriate ATC facility and dispatcher centers fully informed of the progress of the flight. The person declaring the emergency shall send a written report of any deviation through the air carrier's operations manager, to the Administrator. A dispatcher shall send his report within 10 days after the date of the emergency, and a pilot in command shall send his report within 10 days after returning to his home base."

FLIGHT NAVIGATOR (FAR 63) (FNX)

- 1. What document(s) must be in a person's possession for that person to act as a flight navigator?
- A—Current flight navigator certificate and a current second-class (or higher) medical certificate.
- B—Current flight navigator certificate and a valid passport.
- C—Third-class medical certificate and current flight navigator certificate.

Answer A—Subject Matter Knowledge Code: A30. FAR Section 63.3(b) states: "No person may act as a flight navigator of a civil aircraft of U.S. registry unless he has in his personal possession a current flight navigator certificate issued to him under this part and a second-class (or higher) medical certificate issued to him under part 67 of this chapter within the preceding 12 months."

2. Assuring that appropriate aeronautical charts are aboard an aircraft is the responsibility of the

A-aircraft dispatcher.

B—flight navigator.

C—pilot in command.

Answer C—Subject Matter Knowledge Code: D20. FAR Section 121.549(a) states: "The pilot in command shall ensure that appropriate aeronautical charts containing adequate information concerning navigation aids and instrument approach procedures are aboard the aircraft for each flight."

APPENDIX 1

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LIST OF REFERENCE MATERIALS AND SUBJECT MATTER KNOWLEDGE CODES

The publications listed in the following pages contain study material you need to be familiar with when preparing for airline transport pilot, aircraft dispatcher, and flight navigator knowledge tests. All these publications can be purchased through U.S. Government bookstores, commercial aviation supply houses, or industry organizations. The latest revision of the listed references should be requested. Additional study material is also available through these sources that may be helpful in preparing for the knowledge tests.

The subject matter knowledge codes establish the specific reference for the knowledge standard. When reviewing results of your knowledge test, you should compare the subject matter knowledge code(s) on your airman test report to the ones found below. This will be helpful for both review and preparation for the practical test.

FAR 1 Definitions and Abbreviations

A01 General Definitions

A02 Abbreviations and Symbols

FAR 61 Certification: Pilots and Flight Instructors

A20 General

A21 Aircraft Ratings and Special Certificates

A25 Airline Transport Pilots

FAR 63 Certification: Flight Crewmembers Other Than Pilots

A32 Flight Navigators

FAR 65 Certification: Airmen Other Than Flight Crewmembers

A41 Aircraft Dispatchers

FAR 91 General Operating Rules

B07 General

B08 Flight Rules - General

B09 Visual Flight Rules

B10 Instrument Flight Rules

B11 Equipment, Instrument, and Certification Requirements

B14 Large and Turbine-powered Multiengine Airplanes

B15 Additional Equipment and Operating Requirements for Large and Transport Category Aircraft

B17 Foreign Aircraft Operations and Operations of U.S.-Registered Civil Aircraft Outside of the U.S.

FAR 108 Airplane Operator Security

C10 General

FAR 121 Certification and Operations: Domestic, Flag and Supplemental Air Carriers and Commercial Operators of Large Aircraft

D05 Approval of Routes: Domestic and Flag Air Carriers

D09 Airplane Performance Operating Limitations

D10 Special Airworthiness Requirements

D11 Instrument and Equipment Requirements

D13 Airman and Crewmember Requirements

D14 Training Program

D15 Crewmember Qualifications

D16 Aircraft Dispatcher Qualifications and Duty Time Limitations: Domestic and Flag Air Carriers

D17 Flight Time Limitations and Rest Requirements: Domestic Air Carriers

D18 Flight Time Limitations: Flag Air Carriers

D19 Flight Time limitations: Supplemental Air Carriers and Commercial Operators

D20 Flight Operations

D21 Dispatching and Flight Release Rules

D22 Records and Reports

FAR 135 Air Taxi Operators and Commercial Operators

E01 General

E02 Flight Operations

E03 Aircraft and Equipment

E04 VFR/IFR Operating Limitations and Weather Requirements

E05 Flight Crewmember Requirements

E06	Flight Crewmember Flight Time Limitations and	H66	Principles of Flight and Performance
T107	Rest Requirements		Characteristics
E07	Crewmember Testing Requirements	. ~ .	
E09	Airplane Performance Operating Limitations	AC 6	61-13 Basic Helicopter Handbook
E10	Maintenance, Preventive Maintenance, and Alterations	T T 77 1	A James CETT 14
E11			į
E11	Appendix A: Additional Airworthiness	H72	
	Standards for 10 or More Passenger Airplanes		Function of the Controls
TIC TI	OMD172 Hammidana Madandala Tabla	H/4	Other Helicopter Components and Their
US II	IMR172 Hazardous Materials Table	1176	Functions
EOO	Comonal	H76	Weight and Balance
F02	General	H77	4
TIC TI	OMD 175 Madariala Transcrutation Dominion	H78	1 0
	IMR 175 Materials Transportation Bureau	H80	1 0
паzа	rdous Materials Regulations (HMR)	H81	Confined Area, Pinnacle, and Ridgeline
C01	Consent Information and Domistions		Operations
G01 G02	General Information and Regulations Loading, Unloading, and Handling	400	1 07 T
G02	Specific Regulation Applicable According to	AC 0	51-27 Instrument Flying Handbook
G03	Classification of Material	TO 4	Dania Eliaba Instrumenta
	Classification of Material	I04	Basic Flight Instruments
MTCI	0 920 Dulas Dautaining to the Natification and	I07	Electronic Aids to Instrument Flying
	B 830 Rules Pertaining to the Notification and	I08	Using the Navigation Instruments
_	rting of Aircraft Accidents or Incidents and	I13	Flight Planning
	due Aircraft, and Preservation of Aircraft	I14	Appendix: Instrument Instructor Lesson
WIEC	kage, Mail, Cargo, and Records		Guide – Airplanes
G10	General	AC 0	0-6 Aviation Weather
G11	Initial Notification of Aircraft Accidents,		
	Incidents, and Overdue Aircraft	I20	The Earth's Atmosphere
G13	Reporting of Aircraft Accidents, Incidents, and	I21	Temperature
	Overdue Aircraft	I22	Atmospheric Pressure and Altimetry
AC 6			Wind
	1-23 Pilot's Handbook of Aeronautical	I23 I24	Wind
		I23 I24	
	1-23 Pilot's Handbook of Aeronautical vledge	I23	Wind Moisture, Cloud Formation, and Precipitation Stable and Unstable Air
	vledge	I23 I24 I25	Wind Moisture, Cloud Formation, and Precipitation
Know	vledge Principles of Flight	I23 I24 I25 I26	Wind Moisture, Cloud Formation, and Precipitation Stable and Unstable Air Clouds
Know H01	vledge	I23 I24 I25 I26 I27	Wind Moisture, Cloud Formation, and Precipitation Stable and Unstable Air Clouds Air Masses and Fronts Turbulence
Know H01 H02	Principles of Flight Airplanes and Engines	I23 I24 I25 I26 I27 I28	Wind Moisture, Cloud Formation, and Precipitation Stable and Unstable Air Clouds Air Masses and Fronts
H01 H02 H04	Principles of Flight Airplanes and Engines Airplane Performance	123 124 125 126 127 128 129	Wind Moisture, Cloud Formation, and Precipitation Stable and Unstable Air Clouds Air Masses and Fronts Turbulence Icing
H01 H02 H04	Principles of Flight Airplanes and Engines Airplane Performance Navigation	123 124 125 126 127 128 129 130	Wind Moisture, Cloud Formation, and Precipitation Stable and Unstable Air Clouds Air Masses and Fronts Turbulence Icing Thunderstorms
H01 H02 H04 H07	Principles of Flight Airplanes and Engines Airplane Performance Navigation	123 124 125 126 127 128 129 130 131	Wind Moisture, Cloud Formation, and Precipitation Stable and Unstable Air Clouds Air Masses and Fronts Turbulence Icing Thunderstorms Common IFR Producers
H01 H02 H04 H07	Principles of Flight Airplanes and Engines Airplane Performance Navigation	123 124 125 126 127 128 129 130 131	Wind Moisture, Cloud Formation, and Precipitation Stable and Unstable Air Clouds Air Masses and Fronts Turbulence Icing Thunderstorms Common IFR Producers High Altitude Weather
H01 H02 H04 H07	Principles of Flight Airplanes and Engines Airplane Performance Navigation 1-23 Pilot's Weight and Balance Handbook	123 124 125 126 127 128 129 130 131 132 133	Wind Moisture, Cloud Formation, and Precipitation Stable and Unstable Air Clouds Air Masses and Fronts Turbulence Icing Thunderstorms Common IFR Producers High Altitude Weather Arctic Weather
H01 H02 H04 H07 AC 92	Principles of Flight Airplanes and Engines Airplane Performance Navigation 1-23 Pilot's Weight and Balance Handbook Index and Graphic Limits	123 124 125 126 127 128 129 130 131 132 133	Wind Moisture, Cloud Formation, and Precipitation Stable and Unstable Air Clouds Air Masses and Fronts Turbulence Icing Thunderstorms Common IFR Producers High Altitude Weather Arctic Weather Tropical Weather
H01 H02 H04 H07 AC 92 H13 H14 H15	Principles of Flight Airplanes and Engines Airplane Performance Navigation 1-23 Pilot's Weight and Balance Handbook Index and Graphic Limits Change of Weight	123 124 125 126 127 128 129 130 131 132 133	Wind Moisture, Cloud Formation, and Precipitation Stable and Unstable Air Clouds Air Masses and Fronts Turbulence Icing Thunderstorms Common IFR Producers High Altitude Weather Arctic Weather Tropical Weather
H01 H02 H04 H07 AC 92 H13 H14 H15	Principles of Flight Airplanes and Engines Airplane Performance Navigation 1-23 Pilot's Weight and Balance Handbook Index and Graphic Limits Change of Weight Control of Loading – General Aviation	123 124 125 126 127 128 129 130 131 132 133	Wind Moisture, Cloud Formation, and Precipitation Stable and Unstable Air Clouds Air Masses and Fronts Turbulence Icing Thunderstorms Common IFR Producers High Altitude Weather Arctic Weather Tropical Weather
H01 H02 H04 H07 AC 92 H13 H14 H15	Principles of Flight Airplanes and Engines Airplane Performance Navigation 1-23 Pilot's Weight and Balance Handbook Index and Graphic Limits Change of Weight Control of Loading – General Aviation Control of Loading – Large Aircraft	123 124 125 126 127 128 129 130 131 132 133 134	Wind Moisture, Cloud Formation, and Precipitation Stable and Unstable Air Clouds Air Masses and Fronts Turbulence Icing Thunderstorms Common IFR Producers High Altitude Weather Arctic Weather Tropical Weather O-45 Aviation Weather Services
H01 H02 H04 H07 AC 9 H13 H14 H15 H16	Principles of Flight Airplanes and Engines Airplane Performance Navigation 1-23 Pilot's Weight and Balance Handbook Index and Graphic Limits Change of Weight Control of Loading – General Aviation Control of Loading – Large Aircraft	123 124 125 126 127 128 129 130 131 132 133 134 AC 0	Wind Moisture, Cloud Formation, and Precipitation Stable and Unstable Air Clouds Air Masses and Fronts Turbulence Icing Thunderstorms Common IFR Producers High Altitude Weather Arctic Weather Tropical Weather Tropical Weather O-45 Aviation Weather Reports
H01 H02 H04 H07 AC 9 H13 H14 H15 H16	Principles of Flight Airplanes and Engines Airplane Performance Navigation 1-23 Pilot's Weight and Balance Handbook Index and Graphic Limits Change of Weight Control of Loading – General Aviation Control of Loading – Large Aircraft	123 124 125 126 127 128 129 130 131 132 133 134 AC 0	Wind Moisture, Cloud Formation, and Precipitation Stable and Unstable Air Clouds Air Masses and Fronts Turbulence Icing Thunderstorms Common IFR Producers High Altitude Weather Arctic Weather Tropical Weather Tropical Weather O-45 Aviation Weather Services Surface Aviation Weather Reports Pilot and Radar Reports and Satellite Pictures
H01 H02 H04 H07 AC 92 H13 H14 H15 H16	Principles of Flight Airplanes and Engines Airplane Performance Navigation 1-23 Pilot's Weight and Balance Handbook Index and Graphic Limits Change of Weight Control of Loading – General Aviation Control of Loading – Large Aircraft 1-21 Flight Training Handbook	123 124 125 126 127 128 129 130 131 132 133 134 AC 0	Wind Moisture, Cloud Formation, and Precipitation Stable and Unstable Air Clouds Air Masses and Fronts Turbulence Icing Thunderstorms Common IFR Producers High Altitude Weather Arctic Weather Tropical Weather Tropical Weather Surface Aviation Weather Reports Pilot and Radar Reports and Satellite Pictures Aviation Weather Forecasts

I47	Significant Weather Prognostics	Additional Advisory Circulars
I48	Winds and Temperatures Aloft	
I50	Severe Weather Outlook Chart	K01 AC 00-24, Thunderstorms
I51	Constant Pressure Charts	K02 AC 00-30, Rules of Thumb for Avoiding or
		Minimizing Encounters with Clear Air
AIM	Airman's Information Manual	Turbulence
		K04 AC 00-54, Pilot Wind Shear Guide
J01	Air Navigation Radio Aids	K40 AC 25-4, Inertial Navigation System (INS)
J03	Airport Lighting Aids	L50 AC 91-6, Water, Slush, and Snow on the
J05	Airport Marking Aids	Runway
J06	Airspace – General	L57 AC 91-43, Unreliable Airspeed Indications
J08	Controlled Airspace	L80 AC 103-4, Hazard Associated with Sublimation
J09	Special Use Airspace	of Solid Carbon Dioxide (Dry Ice) Aboard
J10	Other Airspace Areas	Aircraft
J11	Service Available to Pilots	M08 AC 120-58, Large Aircraft Ground Deicing
J12	Radio Communications Phraseology and	M51 AC 20-117, Hazards Following Ground Deicing
	Techniques	and Ground Operations in Conditions Conducive
J13	Airport Operations	to Aircraft Icing
J14	ATC Clearance/Separations	
J15	Preflight	The Aircraft Gas Turbine Engine and Its Operation
J16	Departure Procedures	 United Technologies Corporation, Pratt
J17	En Route Procedures	Whitney, 1988
J18	Arrival Procedures	
J19	Pilot/Controller Roles and Responsibilities	T01 Gas Turbine Engine Fundamentals
J20	National Security and Interception Procedures	T03 Gas Turbine Engine Components
J21	Emergency Procedures – General	T05 Operational Characteristics of Jet Engines
J25	Meteorology	
J26	Altimeter Setting Procedures	Aircraft Powerplants – McGraw–Hill, Sixth Edition
J27	Wake Turbulence	
J30	Safety, Accident, and Hazard Reports	T07 Aircraft Powerplant Classification and Progress
J31	Fitness for Flight	T11 Induction Systems, Superchargers,
J33	Pilot Controller Glossary	Turbochargers, and Exhaust Systems
J34	Airport/Facility Directory	T24 Gas-Turbine Operation, Inspection,
J35	En Route Low Altitude Chart	Troubleshooting, Maintenance, and Overhaul
J36	En Route High Altitude Chart	
J40	Standard Instrument Departure (SID) Chart	Aircraft Basic Science - McGraw-Hill, Sixth
J41	Standard Terminal Arrival (STAR) Chart	Edition
J42	Instrument Approach Procedures	
		T34 Airfoils and their Application
AC 6	7-2 Medical Handbook for Pilots	
		Aircraft Maintenance and Repair - McGraw-Hill
J52	Hypoxia	Fifth Edition
J53	Hyperventilation	
J56	Alcohol	T45 Aircraft Systems
J58	Carbon Monoxide	
J62	Disorientation (Vertigo)	EA-363 Transport Category Aircraft Systems -
		IAP, Inc.
		T55 Anti-Icing Systems and Rain Protection
		T58 Fuel Systems

FAA Accident Prevention Program Bulletins

V12 FAA-P-8740-48, On Landings, Part I V14 FAA-P-8740-50, On Landings, Part III

EA-338 Flight Theory for Pilots – IAP, Inc., Third Edition

W03 Aerodynamic Forces on Airfoils

W04 Lift and Stall

W05 Drag

W06 Jet Aircraft Basic Performance

W07 Jet Aircraft Applied Performance

W12 Takeoff Performance

W13 Landing Performance

W14 Maneuvering Performance

W16 Directional and Lateral Stability and Control

W17 High Speed Flight

Fly the Wing, – Iowa State University Press/Ames, Second Edition

X07 Takeoffs

X09 Climb, Cruise, and Descent

X15 Landings: Approach Technique and Performance

NOTE: AC 00-2, Advisory Circular Checklist, transmits the status of all FAA advisory circulars (AC's), as well as FAA internal publications and miscellaneous flight information such as Airman's Information Manual (AIM), Airport/Facility Directory, practical test standards, and other material directly related to a certificate or rating. To obtain a free copy of AC 00-2, send your request to:

U.S. Department of Transportation General Services Section, M-45.3 Washington, DC 20590

SUPPLEMENTAL STUDY REFERENCE MATERIALS

Aircraft Basic Science McGraw-Hill

Aircraft Powerplants McGraw-Hill

Aerodynamics For Naval Aviators, NAVWEPS 00-80T-80

FAR 125 Certification and Operations: Airplanes Having a Seating Capacity of 20 or More Passengers or a Maximum Payload Capacity of 6,000 Pounds or More

AC 00-30 Rules of Thumb for Avoiding or Minimizing Encounters with Clear Air Turbulence

AC 00-46 Aviation Safety Reporting Program

AC 60-22 Aeronautical Decision Making

AC 61-107 Operations of Aircraft at Altitudes Above 25,000 Feet MSL and/or Mach Numbers (Mmo) Greater Than .75

AC 90-23 Aircraft Wake Turbulence

AC 90-48 Pilots' Role in Collision Avoidance

AC 90-87 Helicopter Dynamic Rollover

AC 91-32 Safety In and Around Helicopters

AC 91-13 Cold Weather Operation of Aircraft

AC 91-50 Importance of Transponder Operation and Altitude Reporting

AC 120-27 Aircraft Weight and Balance Control

AC 120-38 Transport Category Airplanes Cabin Ozone Concentrations

AC 120-43 The Influence of Beards on Oxygen Mask Efficiency

AC 120-48 Communication and Coordination Between Flight Crewmembers and Flight Attendants

AC 121.195 Operational Landing Distances for Wet Runways; Transport Category Airplanes

AC 150/5340-1 Standards for Airport Markings

COMPUTER TESTING DESIGNEES

The following is a list of the computer testing designees authorized to give FAA knowledge tests. This list should be helpful in choosing where to register for a test or for requesting additional information.

Aviation Business Services 1-800-947-4228 outside U.S. (415) 259-8550

Drake Prometric 1-800-359-3278 outside U.S. (612) 896-7702

Sylvan Learning Systems, Inc. 1-800-967-1100 outside U.S. (410) 880-0880, Extension 8890

The latest listing of computer testing designees and computer testing center locations is available by calling the local Flight Standards District Office or the Examiners Bulletin Board, by computer modem, at (405) 954-4530 or 1-800-858-2107.

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